

WHAT IS CLAIMED IS:

1. A reflecting device for flat panel displays, comprising:

a light source;

a nonconductive base having a groove; and

5 at least a reflector disposed on an inner surface defining said groove
of said nonconductive base to reflect rays of light coming from said light
source to an exterior of said groove;

wherein said light source is located within said groove and said
reflector is located between said nonconductive base and said light source.

10 2. The reflecting device as claimed in claim 1, wherein said light
source is a cold cathode fluorescent lamp (CCFL) or a light emitting diode.

3. The reflecting device as claimed in claim 1, wherein said
nonconductive base is made of plastics, polyester or a non-metal material.

15 4. The reflecting device as claimed in claim 1, wherein said reflector
is nonconductive.

5. The reflecting device as claimed in claim 1, wherein said reflector
is a specular reflector.

20 6. A method for manufacturing a reflecting device for flat panel
displays, in cooperation with at least a light source, comprising the
following steps:

providing a nonconductive base having at least a groove for
locating said light source;

securely positioning a reflector in said groove of said
nonconductive base; and

securely positioning said light source in said groove of said nonconductive base wherein said reflector is located between said nonconductive base and said light source.

7. The method as claimed in claim 6, wherein said reflector is placed
5 and fixed in said groove of said nonconductive base by utilizing adhesive or hot-pressing.

8. The method as claimed in claim 6, wherein said reflector is inserted into said groove of said nonconductive base in a bent manner and then fixed therein.

10 9. The method as claimed in claim 6, wherein said light source is a cold cathode fluorescent lamp (CCFL) or a light emitting diode.

10. The method as claimed in claim 6, wherein said reflector is nonconductive.

11. The method as claimed in claim 6, wherein said nonconductive
15 base is made of plastics, polyester or a non-metal material.

12. The method as claimed in claim 6, wherein said nonconductive base is produced by injection molding or extrusion.

13. A method for manufacturing a reflecting device for flat panel displays, in cooperation with at least a light source, comprising the
20 following steps:

forming fold lines for bending on the surface of a nonconductive substrate;

adhering a reflector to said nonconductive substrate to form a composite reflector; and

bending said composite reflector to form a nonconductive base having at least a groove;

wherein said groove is used for locating said light source.

14. The method as claimed in claim 13, wherein said reflector is
5 adhered to said nonconductive substrate by adhesion or hot-pressing.

15. The method as claimed in claim 13, wherein said composite reflector is bent to form a nonconductive base having at least a groove by hot-pressing, punching, and shearing.

16. The method as claimed in claim 13, wherein said reflector is
10 nonconductive.

17. The method as claimed in claim 13, wherein said light source is a cold cathode fluorescent lamp (CCFL) or a light emitting diode.

18. The method as claimed in claim 13, wherein said nonconductive base is made of plastics, polyester or a non-metal material.

15 19. The method as claimed in claim 13, wherein said flat panel display is a liquid crystal display.